

Feb 25 1997

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: HARPOLD et al.

Serial No.: 07/938,154

Filed: November 30, 1992

For: HUMAN NEURONAL NICOTINIC
ACETYLCHOLINE RECEPTOR COMPOSITIONS
AND METHODS EMPLOYING SAME

Group Art Unit: 1812

Examiner: Ulm, J.

I hereby certify that this paper and the attached
papers are being deposited with the United
States Postal Service as first class mail in an
envelope addressed to:

Assistant Commissioner for Patents
Washington, D.C. 20231, on this date.

02/20/97

Date

Stephanie L. Seidman

AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Responsive to the Office Action, mailed August 20, 1997, please amend
the application as follows:

IN THE CLAIMS:

Please cancel claims 54, 75 and 78 without prejudice or disclaimer.

Please add claims 97 and 98, which are claims 75 and 78, as follows:

71b H14
—97. Isolated nucleic acid, comprising a sequence of nucleotides that
encodes a beta2 subunit of a human nicotinic acetylcholine receptor that
comprises a sequence of amino acids encoded by the sequence of nucleotides
set forth in SEQ ID No. 9.—

—98. An isolated subunit of a human nicotinic acetylcholine receptor
encoded by the nucleic acid of claim 97.—

Please add claim 99 as follows:

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—99. An isolated nucleic acid, comprising the sequence of nucleotides
set forth in any of SEQ ID Nos. 1, 3, 5, 7 or 9.—

Please amend claims 53, 55-63, 66-68, 71, 72, 76, 77, 82-84 and 91-
93 as follows:

73
81b H2
53. (Amended) [A substantially pure] An isolated nucleic acid,
comprising a sequence of nucleotides encoding [a subunit of a human neuronal
nicotinic acetylcholine receptor, wherein said subunit is selected from the group